M-X BASING AREA

ANALYSIS PROCESS

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OF POTENTIAL M-X BASING AREAS. A MORE DETAILED DESCRIPTION WAS PUBLISHED IN THIS BRIEFING SUMMARIZES THE ANALYSIS THE DRAFT M-X ENVIRONMENTAL IMPACT CALLE VON HOLE Walter and Edition of the said \sim 1

PURPOSE

PROCESS ENTAILING THE SUCCESSIVE APPLICATION OF SEVERAL SETS OF SCREENING CRITERIA M-X MISSILE IN MULTIPLE PROTECTIVE STRUCTURES (MPS), THE PROCESS BEGAN IN JANUARY 1977 WITH CRITERIA INVOLVING GEOTECHNICAL, CULTURAL, SAFETY, AND OTHER CONCERNS. THIS BRIEFING DESCRIBES THE M-X BASING AREA SELECTION PROCESS--A CONTINUING AND THE IDENTIFICATION OF UNACCEPTABLE OR UNREASONABLE BASING AREAS FOR THE

AS THE DEPTH OF THE ANALYSES INCREASES, THE BREADTH MAY DECREASE AS ACCUMULATED AIR FORCE BALANCES A VARIETY OF CONCERNS -- ENVIRONMENTAL AND SOCIOECONOMIC IMPACTS, INFORMATION SHOWS THAT SOME ALTERNATIVES ARE UNREASONABLE. BY THIS PROCESS, THE MILITARY EFFICIENCY, SCHEDULE RISK, ETC. EACH STAGE OF THE SCREENING EMPLOYS CRITERIA WHICH, LIKE MOST CRITERIA, INVOLVE JUDGMENT. CLEAR BREAKPOINTS ARE UNUSUAL, BUT THE PREFERRED DIRECTION IS USUALLY OBVIOUS, AND UNREASONABLE ALTERNATIVES ARE NORMALLY EASY TO DISTINGUISH.

INCORPORATED INTO THE DECISION PROCESS, BY EXAMINING SUCH FACTORS AS SURVIVABILITY, POTENTIAL NEW THREATS, VERIFICATION, PRESERVATION OF MISSILE LOCATION UNCERTAINTY, AND INTERACTION WITH OTHER STRATEGIC FORCES, DEPLOYMENT CRITERIA WERE DEVELOPED AND USED TO MINIMIZE ACTUAL AND POTENTIAL VULNERABILITIES, PROTECT AGAINST THE PAPER CONCENTRATES ON MILITARY CONSIDERATIONS WHICH WERE RECENTLY UNPREDICTABLE CHANGES, AND MINIMIZE RESOURCE REQUIREMENTS.

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PURPOSE

WITH EMPHASIS ON RECENT SELECTION OF THE NEVADA-UTAH DESCRIBE THE M-X BASING AREA SELECTION PROCESS AND WEST TEXAS - NEW MEXICO AREAS FOR IN-DEPTH ENVIRONMENTAL ANALYSIS

OUTL INE

TO PROVIDE A FOUNDATION FOR RECENT BASING AREA DECISIONS, BACKGROUND INFORMATION WILL BE PRESENTED TO EXPLAIN THE NEED FOR M-X, DESCRIBE THE CURRENT BASING CONCEPT, AND OUTLINE THE M-X ENVIRONMENTAL PROCESS. THE RATIONALE FOR MILITARY SCREENING CRITERIAL WILL BE DEVELOPED, AND THE RESULTS OF APPLYING THE SCREENING CRITERIA TO POTENTIAL M-X BASING AREAS WILL BE PRESENTED.

OUTLINE

- BACKGROUND
- NEED FOR M-X
- CURRENT BASING CONCEPT
- M-X ENVIRONMENTAL PROCESS
- SCREENING CRITERIA
- APPLICATION OF CRITERIA

HIGHEST PRIORITY DEFENSE PROGRAM, THE NATIONAL IMPORTANCE OF THE PROGRAM AND THE CRITI-DURING THE 1000s THAT WILL SERIOUSLY IMPAIR ITS ABILITY TO DETER HOSTILE SOVIET ACTIONS DUE TO THE CONTINUING SOVIET STRATEGIC BUILDUP, THE [!S FACES A STRATEGIC IMBALANCE AND ESSENTIAL EQUIVALENCE AND, AS SUCH, THE DEPARTMENT OF DEFENSE CONSIDERS IT THE CALITY OF ITS SCHEDULE HAVE BEEN CONFIRMED BY BOTH THE ADMINISTRATION AND CONGRESS AT ALL LEVELS. THE DEPLOYMENT OF M-X IS CRITICAL TO RESTORING MILITARY BALANCE

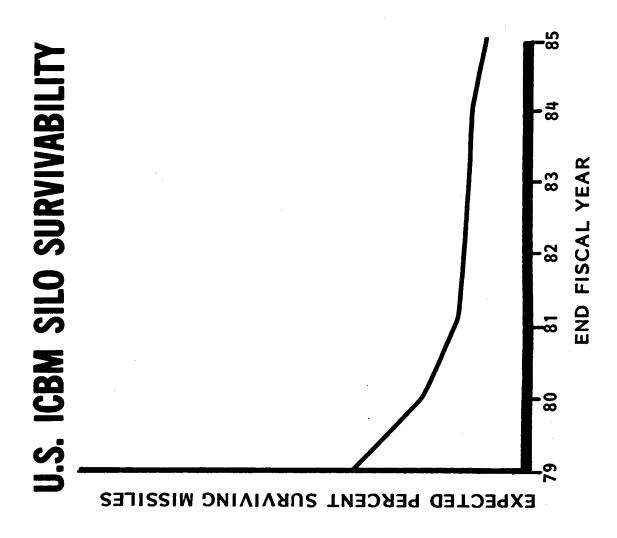
THEIR ICBMS. SOVIET DOCTRINE HOLDS THAT, IF THEY BELIEVE WAR TO BE IMMINENT, THEN THE GREATEST DANGER THE US WILL FACE IN THE STRATEGIC AREA IS THE CAPABILITY THE SOVIETS WILL HAVE BY THE EARLY $1^{\Omega}80$ S TO DESTROY A LARGE PORTION OF 1^{S} INTER-PREEMPTIVE COUNTERFORCE ATTACKS SHOULD BE LAUNCHED TO LIMIT DAMAGE TO THE SOVIET UNION. HENCE, THE VULNERABILITY OF US ICBM'S NOT ONLY REDUCES THE US RETALIATORY CONTINENTAL BALLISTIC MISSILES (ICBMS) USING ONLY A RELATIVELY SMALL PORTION OF INCREASES THE SOVIETS' CONFIDENCE IN THEIR ABILITY TO EXECUTE AN EFFECTIVE CAPABILITY, BUT IT IS ALSO DESTABILIZING IN CRISIS SITUATIONS BECAUSE IT COUNTERFORCE STRIKE,

NEED FOR M-X

- SOVIET ARMS BUILDUP
- STRATEGIC IMBALANCE
- ▶ RESTORATION OF ESSENTIAL EQUIVALENCE WITH A SURVIVABLE US ICBM FORCE
- SECURE RETALIATORY FORCE
- CRISIS STABILITY

ALL AVAILABLE EVIDENCE INDICATES THAT TARGETING US ICBM SILOS CONTINUES TO BE A HIGH SOVIET PRIORITY, AND THE NUMBERS OF HIGH THIS CHART ILLUSTRATES THE DECLINING SURVIVABILITY OF THE CURRENT QUALITY WARHEADS ON SOVIET SS-18s AND SS-10s POSE'A SERIOUS THREAT TO US SILO SURVIVABILITY. US ICBM FORCE.

THE HIGHEST PRIORITY US STRATEGIC INITIATIVE IS TO REDUCE THIS VULNERABILITY, THROUGH THE DEPLOYMENT OF THE M-X MISSILE SYSTEM.



STRATEGIC WEAPON RATIO COMPARISON

WEAPONS AFTER A SOVIET SURPRISE ATTACK, INCLUDING ICBMS, SEA LAUNCHED BALLISTIC THE DECLINE IN US ICBM SURVIVABILITY IN THE FACE OF THE CONTINUING SOVIET STRATEGIC BUILDUP IS REFLECTED IN THIS COMPARISON OF US AND SOVIET STRATEGIC MISSILES, AND BOMBERS.

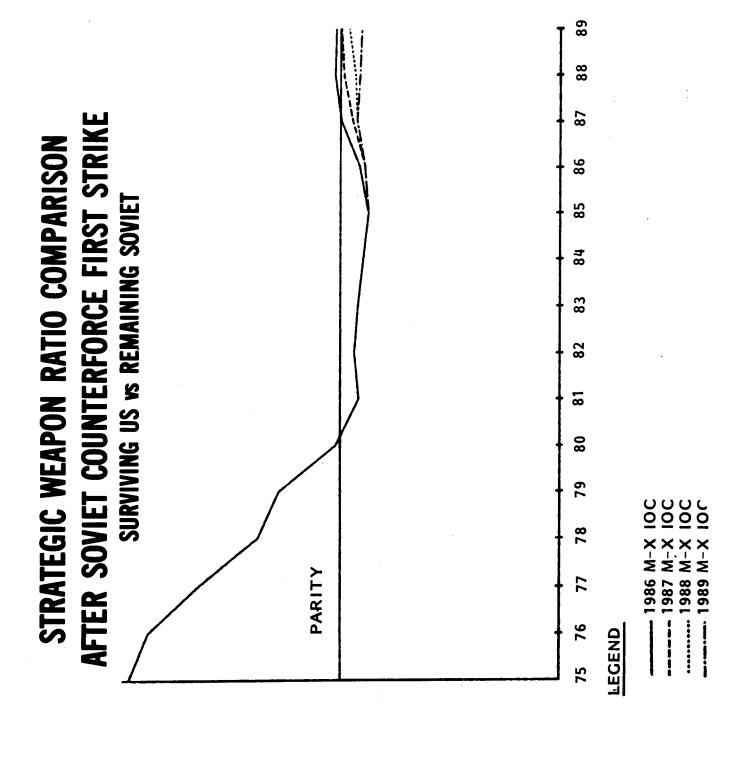
THAT SERVED TO DETER NUCLEAR WAR AS WELL AS RESTRAIN SOVIET ACTIONS AT LOWER IN 1975 THE US ENJOYED OVERWHELMING NUCLEAR SUPERIORITY--A SUPERIORITY LEVELS OF CONFLICT.

UNTIL M-X IS FIELDED. THE PROGRAMMED DEPLOYMENT OF AIR LAUNCHED CRUISE MISSILES SOVIET ARMS MOMENTUM CONTINUED UNABATED, WITH DECLINING ICBM SURVIVABILITY, AND TRIDENT SUBMARINES WILL SLOW THE DECLINE IN RELATIVE FORCE CAPABILITIES, THE US FACES A STRATEGIC IMBALANCE IN THE 1980s THAT WILL NOT BE CORRECTED BY THE LATE 1970s, A CONDITION OF ESSENTIAL EQUIVALENCE EVOLVED, BUT BUT THE TREND WILL NOT BE REVERSED UNTIL M-X DEPLOYMENT PEGINS IN 1986.

AS SHOWN ON THE RIGHT SIDE OF THE CHART, ANY DELAY IN M-X DEPLOYMENT WILL EXTEND THE PERIOD WHERE THE SOVIETS WILL ENJOY AN ADVANTAGE. STRATEGIC WEAPON RATIO COMPARISON (CONTINUED)

THERE ARE SEVERAL IMPORTANT POINTS THAT ARE NOT EVIDENT FROM THE CHART,

- INACCURATE SEA LAUNCHED BALLISTIC MISSILE WEAPONS COMPARED WITH SOVIET FORCES THE EARLY US ADVANTAGE WAS BASED ON FORCES WITH A LARGE NUMBER OF LOW YIELD, THE SOVIET ADVANTAGE IN THE 1980'S APPEARS SMALL ON THE CHART BECAUSE THAT HAD MUCH LESS CAPABILITY THAN THOSE THEY ARE NOW DEPLOYING, THE US ADVANTAGE IN WEAPONS IN THE MID- $1^{
 m O}70^{
 m S}$ was very large.
- THEIR ADVANTAGE IN THE 1980s WILL BE BASED ON A PREPONDERANCE OF WEAPONS WITH ONLY STRATEGIC WEAPONS THAT CAN COVER THE FULL SPECTRUM OF TARGETS, BECAUSE - ICBMS, WITH THEIR TIME URGENT, HARD TARGET KILL CAPABILITY, ARE THE THE SOVIETS HAVE OVER THREE FOURTHS OF THEIR STRATEGIC WEAPONS ON ICBMS, A SUPERIOR WAR FIGHTING CAPABILITY.
- ALL US ICEMS. THIS IMPORTANT ATTRIBUTE OF M-X, AND ITS CONTRIBUTION TO DETERRENCE, SOVIETS COULD EXHAUST THEIR ICBM RESOURCES AND STILL NOT BE ABLE TO TARGET BEFORE M-X DEPLOYMENT, THE SOVIETS WILL BE ABLE TO TARGET US ICBMS WITH ONLY A SMALL FRACTION OF ITS ICBM RESOURCES, AFTER M-X DEPLOYMENT, WILL BE EXPLAINED NEXT,



M-X BASELINE

SURVIVING US ICBMS FOR A MEANINGFUL US RETALIATION. IN ADDITION, BACKUP SURVIVABILITY THREAT, 200 MISSILES WILL BE DEPLOYED IN 4600 SHELTERS. THE LOCATION OF THE MISSILES WILL BE CONCEALED, SO THE SOVIETS WOULD HAVE TO ATTACK ALL SHELTERS TO DESTROY THE ESSENTIALLY EXHAUST ITS ICBM RESOURCES IN THE ATTACK AND STILL LEAVE SUFFICIENT HOWEVER, THE NUMBER OF SHELTERS WOULD BE SUCH THAT THE SOVIET UNION WOULD TO PROVIDE THE NECESSARY SURVIVABILITY IN RESPONSE TO THE PROJECTED SOVIET MODES WILL BE AVAILABLE TO HEDGE AGAINST THREAT INCREASES OR UNEXPECTED SOVIET CAPABILITIES TO REDUCE THE EFFECTIVENESS OF CONCEALMENT PROCEDURES,

M-X BASELINE

● 200 MISSILES CONCEALED IN 4600 SHELTERS

BACKUP MOBILITY MODES

BMD OPTION

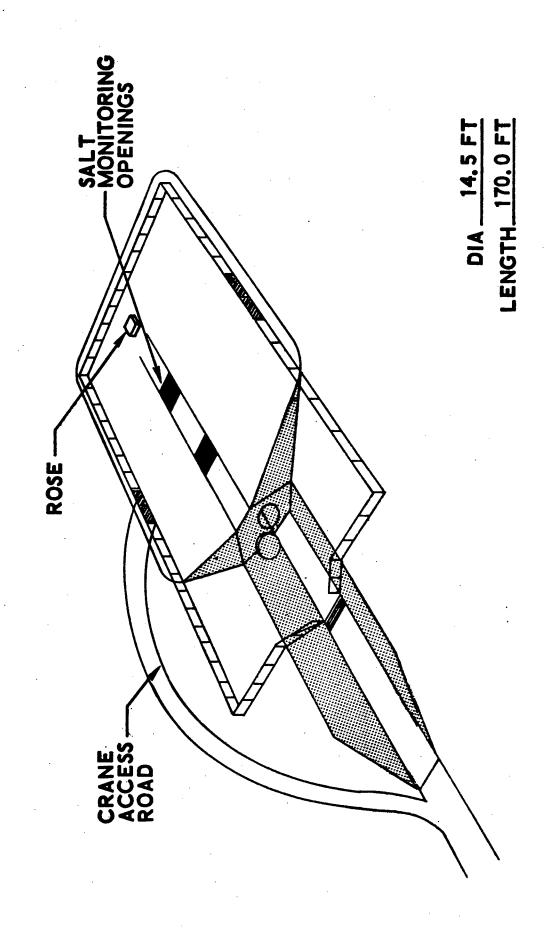
VERIFIABLE HORIZONTAL MPS--SHELTER SITE

THE PROTECTIVE SHELTER HOUSES, PROTECTS, AND CONCEALS THE MISSILE/LAUNCHER, TWO PLUGS IN THE ROOF OF THE SHELTER CAN BE REMOVED BY CRANE TO PERMIT VERIFI-WITH A CONCRETE AND STEEL DOOR. EACH SHELTER IS BURIED UNDER 5 FEET OF EARTH. EACH OF THE 4, FPC SHELTERS IS A REINFORCED-CONCRETE, STEEL-LINED CYLINDER CATION OF SHELTER CONTENTS BY SATELLITES. RESIDENT OPERATIONAL SUPPORT EQUIPMENT (ROSE) IS LOCATED ADJACENT TO EACH SHELTER,

LIVESTOCK FENCE. SHELTER SITE SECURITY IS PROVIDED BY INTRUSION SENSORS AND THE SHELTER SITE IS APPROXIMATELY 2.5 ACRES AND IS ENCLOSED BY A OTHER PHYSICAL SECURITY DEVICES WHICH CAN BE REMOTELY MONITORED, THERE ARE 23 SHELTERS PER M-X MISSILE, WITH THE MISSILE LOCATION CONCEALED. THE OTHER 22 SHELTERS WILL CONTAIN MASS SIMULATORS TO MINIMIZE ANY SIGNATURES THAT COULD BE USED TO HELP DETERMINE MISSILE LOCATION,

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VERIFIABLE HORIZONTAL MPS--SHELTER SITE

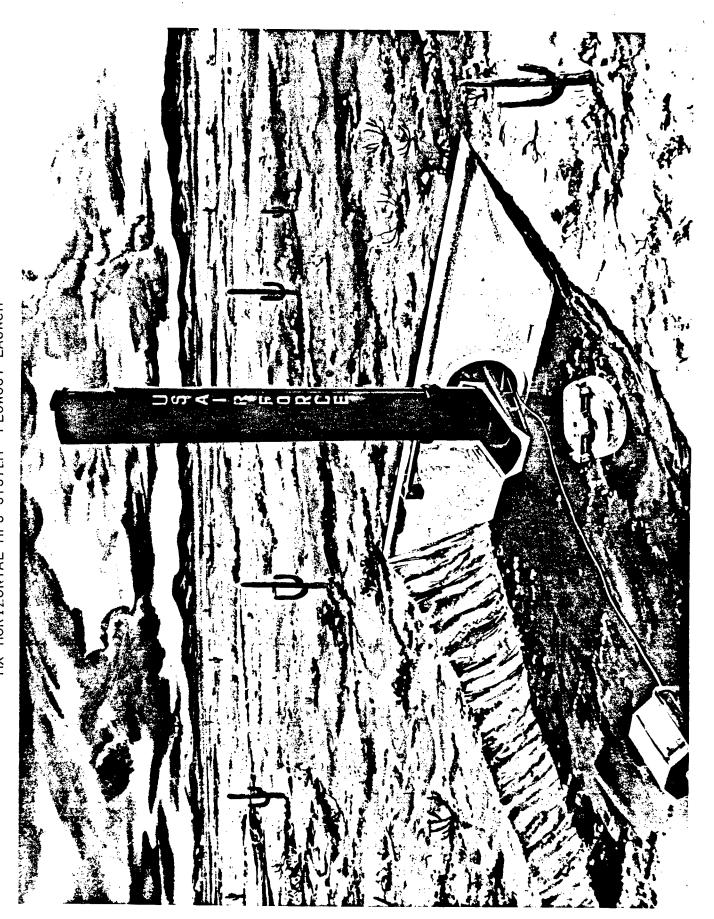


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MX HORIZONTAL MPS SYSTEM--PLOWOUT LAUNCH

THE LAUNCHER IS THEN ERECTED TO NEAR-VERTICAL, AND THE MISSILE IS LAUNCHED. OPERATING ENVIRONMENT, IT ATTACHES TO A LAUNCHER WHICH PROVIDES ERECTION THE MX MISSILE WILL BE ENCLOSED IN A CANISTER WHICH PROVIDES A CONTROLLED LAUNCHER EMERGES PARTIALLY FROM THE SHELTER, THE CANISTER PORTION OF AND LAUNCH CAPABILITY, FOR LAUNCH, THE CANISTERIZED MISSILE AND

THE MISSILE IS 70 FT LONG, 92 IN, IN DIAMETER AND WEIGHS APPROXIMATELY 190,000 LBS. IT HAS FOUR STAGES, THE FIRST THREE USE SOLID FUEL, AND THE FOURTH, THE POST BOOST VEHICLE, USES LIQUID FUEL, IT CARRIES TEN REENTRY VEHICLES OF THE SAME TYPE CURRENTLY BEING DEPLOYED ON A PORTION OF THE MINUTEMAN III STRATEGIC MISSILE FORCE, THE MX MISSILE WILL BE APPROXIMATELY TWO-THIRDS THE SIZE OF THE US TITAN II MISSILE AND ABOUT ONE-MALF THE SIZE OF THE SOVIET SS-18,



MX HORIZONTAL MPS SYSTEM--PLOWOUT LAUNCH

HORIZONTAL SHELTER--SEPARATE TRANSPORTER AND MOBILE LAUNCHER

SYSTEM OPERATION BEGINS AS THE SYSTEM IS BEING FIELDED AND CONTINUES THROUGH THIS BUILDUP PROCESS WILL TAKE ABOUT A WEEK FOR EACH MISSILE, ONCE ASSEMBLED, THE LIFE OF THE SYSTEM, TO BEGIN OPERATION, MISSILE AND LAUNCHER COMPONENTS AND INTEGRATE THE MISSILE AND LAUNCHER IN THE MISSILE ASSEMBLY FACILITIES. THE MISSILE AND LAUNCHER IS SENT TO THE FINAL ASSEMBLY AREA AT THE CLUSTER WILL BE SHIPPED TO THE DESIGNATED ASSEMBLY AREA WHERE TEAMS WILL ASSEMBLE TRANSPORTATION NETWORK (DIN), THIS MOVEMENT OF THE LAUNCHER WILL REQUIRE MAINTENANCE FACILITY BY A SPECIAL TRANSPORT VEHICLE OVER THE DESIGNATED SECURITY ESCORT TO PROTECT THE MISSILE COMPONENTS AND TO DIRECT TRAFFIC FOR PUBLIC SAFETY,

ONCE THE LAUNCHER IS AT THE CLUSTER MAINTENANCE FACILITY, IT IS TRANSFERRED VERIFICATION PERIOD THEN FOLLOWS DURING WHICH ALL SHELTER PLUGS, AND BUILDING DTN ACCESS TO THE CLUSTER TO CONFINE THE TRANSPORTER AND TO PERMIT SATELLITE INTO THE TRANSPORTER. AT THIS TIME, AN EARTHEN BARRIER IS ERECTED OVER THE TAMPERING OF THIS EARTHEN BARRIER IS DETECTABLE BY SATELLITE, A TWO-DAY VERIFICATION THAT ONLY A SINGLE MISSILE IS PRESENT IN THE CLUSTER. PARTS AND VEHICLE ROOF PARTS ARE OPEN FOR OBSERVATION,

HORIZONTAL SHELTER (CONT'D)

TRANSPORTER VISITS EACH OF THE 23 SHELTERS IN THE CLUSTER, EMPLACING THE LAUNCHER -OLLOWING THE OBSERVATION PERIOD, ALL ORSERVATION PORTS ARE CLOSED, AND THE IN ONE. THE REMAINING ?2 SHELTERS WILL CONTAIN A SIMULATOR HAVING MANY OF THE CHARACTERISTICS OF A MISSILE, SINCE THE TRANSPORTER ACTIONS ARE THE SAME AT EACH SHELTER, THE LOCATION OF THE MISSILE IS NOT KNOWN BY ANY EXTERNAL OBSERVER,

DISTANCE OF 5,200 FT, BETWEEN SHELTERS HAS BEEN SELECTED. CONSTRUCTION OF MORE THAN 4,600 SHELTERS IS NOT PROPOSED; HOWEVER, THE COMBINATION OF SHELTER SPACING THE SHELTER LAYOUT PATTERN HAS BEEN SELECTED TO PROVIDE THE DESIRED MISSILE OF SHELTERS WITHOUT EXPANDING THE AREA REQUIREMENTS FOR THE SYSTEM. AN AVERAGE AND BACKFILL CAPABILITY REPRESENTS A SATISFACTORY COMPROMISE BETWEEN MINIMIZING SURVIVABILITY AND ALSO ALLOW ROOM FOR A FIFTY PERCENT INCREASE IN THE NUMBER LAND REQUIREMENTS AND PROVIDING A REASONABLE HEDGE AGAINST POTENTIAL SOVIET INITIATIVES

IS NOT REQUIRED TO LAUNCH THE MISSILE, AND IS THEREFORE NOT COUNTED UNDER SALT. EQUIPMENT REQUIRED TO MONITOR, OPERATE, AND LAUNCH THE MISSILE. THE SHELTER ERECTOR LAUNCHER MECHANISM, THE LAUNCHER CONTAINS ELECTRONIC AND MECHANICAL MOBILITY OF THE M-X IS ACHIEVED THROUGH THE USE OF A TRANSPORTER AND AN

HORIZONTAL SHELTER (CONT'D--PAGE ?)

OR A MASS SIMULATOR, THE TRANSPORTER AND LAUNCHER ARE SEPARABLE, ONLY THE LAUNCHER ABOUT 750,000 LBS EMPTY AND ABOUT 1,750,000 LBS WHEN CARRYING THE MOBILE LAUNCHER THE LAUNCHER WITH ITS CANISTERIZED MISSILE IS MOVED AMONG THE 23 SHELTERS IN A CLUSTER AT APPROXIMATELY 5 MILES PER HOUR BY A MULTI-AXLE TRANSPORT VEHICLE, THIS TRANSPORTER ALONE (ONE FOR EACH MISSILE DEPLOYED) WEIGHS OR SIMULATOR IS INSERTED IN THE SHELTER,

OF THE SHELTERS IN THE 23-SHELTER CLUSTER, WHERE A SIMILAR SERIES OF ACTIONS TAKES PLACE. AT ONE OF THE SHELTERS, THE MISSILE AND LAUNCHER ARE EXCHANGED FOR THE MISSILE SIMULATOR, SINCE THE MISSILE AND LAUNCHER ARE CONCEALED INSIDE THE TRANSPORTER, DURING THE EXCHANGE AN OBSERVER CANNOT DETERMINE WHICH SHELTER WHEN THE LAUNCHER IS MOVED AMONG SHELTERS, THE TRANSPORTER VISITS EACH CONTAINS THE MISSILE AND WHICH CONTAINS SIMULATORS,

OR IN PERIODS OF TENSION, ALL OR A PORTION OF THE MISSILES COULD BE PUT IN MOTION CLUSTERS IN ABOUT 12 HOURS. IF CONCEALMENT REMAINED IN QUESTION FOR SOME TIME, ON THE CLUSTER ROADS, ABLE TO MOVE RAPIDLY TO THF NEAREST SHELTERS ON WARNING. A BACK-UP CAPABILITY IS AVAILABLE IF IT IS SUSPECTED THAT CONCEALMENT HAS SOMEHOW BEEN COMPROMISED. ALL 200 MISSILES COULD BE RELOCATED WITHIN THEIR

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PHELTER SEPARATE TRAN UNCLASSIFED HORIZONTAL

CLUSTER -MAINT. FACILITY PORTER IOBILE 1 23 SITES-(TYP) DESIGNATED DEPLOYMENT AREA -BARRIER & MODELE LAUNCHEN OPERATIONAL ROAD NETWORK Ø STOCK FENCE TO REMAINING DEPLOYMENT. AREA DESIGNATED ASSEMBLY AREA DESIGNATED
TRANSPORTATION
NETWORK ROSE SAL MONITORING PORTS SHELTER

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M-X DEFENSE

CONSTRAINTS OF THE ANTI-BALLISTIC MISSILE TREATY, THE OPTION TO DEPLOY A BALLISTIC IN CASE THE SOVIETS DECIDE TO ABANDON ALL ARMS CONTROL MEASURES AND UNDERTAKE A MASSIVE "ARMS RACE" BUILDUR TO ATTACK M-X, THE US IS MAINTAINING, WITHIN THE MISSILE DEFENSE (BMD) WHICH WOULD BLUNT A SOVIET ATTACK,

BE CONCEALED IN A SHELTER NEAR THE M-X MISSILE AND BE ACTIVATED IN CASE OF ATTACK, A BMD DEFENSE UNIT (DU), CONSISTING OF A RADAR AND SEVERAL INTERCEPTORS WOULD ITS PURPOSE WOULD BE TO DEFEND ONLY FILLED SHELTERS, SINCE THE SOVIETS WOULD NOT KNOW WHICH SHELTERS WOULD BE FILLED, THEY WOULD HAVE TO INCREASE THE NUMBER OF IS DEFENDED AGAINST ONLY ONE RV OR EVEN TRIPLE IF M-X IS DEFENDED AGAINST TWO REENTRY VEHICLES (RVS) TARGETTED AT ALL SHELTERS--DOUBLE THE NUMBER IF M-X SOVIET RVS,

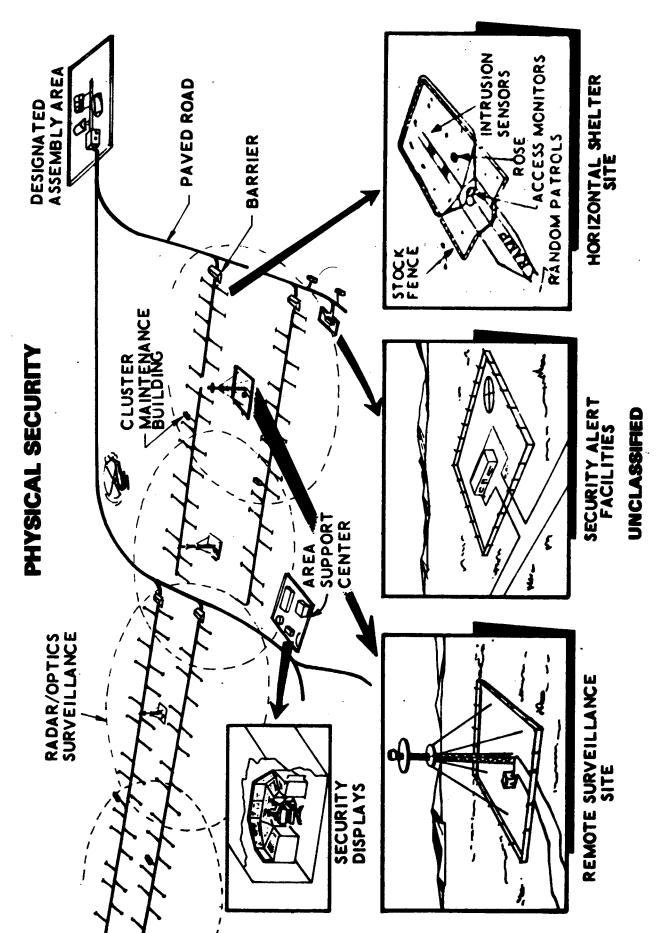
THE TREMENDOUS LEVERAGE PROVIDED BY ONLY HAVING TO DEFEND FILLED SHELTERS THE OPTION TO DEPLOY SUCH A BMD SYSTEM SHOULD SERVE TO INHIBIT A SOVIET "ARMS SHOULD MAKE THE SOVIET COST TO ATTACK EXORPITANT, THEREFORE, MERELY HAVING RACE" BUILDUP TO ATTACK THE BASIC M-X SYSTEM,

PHYSICAL SECURITY

EACH INA QUARTER ACRE FENCED PLOT IN THE DEPLOYMENT AREA, THE EXACT NUMPER APPROXIMATELY ? OU UNMANNED REMOTE SURVEILLANCE SITES WILL BE BUILT, WILL DEPEND ON THE FINAL SHELTER LAYOUT AND TOTAL AREA TO BE MONITORED, EACH SITE WILL CONTAIN SURVEILLANCE SENSORS MOUNTED ON JOP FOOT TALL TOWERS. DATA COLLECTION FROM THE SENSORS WILL BE TRANSMITTED TO AN AREA SUPPORT CENTER VIA BURIED CABLE. THESE SENSORS ARE PART OF THE SECURITY SYSTEM AND WILL BE USED TO DETECT SUSPICIOUS ACTIVITIES WITHIN THE CLUSTER AREAS,

AT THE AREA SUPPORT CENTER FOR TRANSPORT BY HELICOPTER TO THE AFFECTED LOCATIONS, LOCATED AT EACH SHELTER, CLUSTER MAINTENANCE FACILITY, AND REMOTE SURVEILLANCE PATROLS WILL BE OPERATING IN THE DEPLOYMENT AREA AT ALL TIMES. ALARM SYSTEMS ADDITIONALLY, THE REMOTE SURVEILLANCE RADARS WILL ALSO BE USED TO MONITOR THE AREA FOR SUSPICIOUS ACTIVITIES WHICH MAY WARRANT ON-LOCATION SECURITY CHECKS, TO ASSESS THE SITUATION. IF WARRANTED, BACKUP SECURITY FORCES ARE AVAILABLE FINALLY, ANY TIME A MISSILE IS TRANSPORTED OVER THE ROAD NETWORK, SECURITY SECURITY OPERATIONS ARE CONTROLLED FROM AREA SUPPORT CENTERS, ROVING ACTIVATES, A ROVING SECURITY PATROL TEAM WILL BE DIRECTED TO THE LOCATION SITE WILL ACTIVATE IF PENETRATIONS ARE ATTEMPTED. IF AN ALARM ESCORTS WILL BE PROVIDED FOR SAFETY AND TRAFFIC CONTROL,

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M-X ENVIRONMENTAL PROCESS

THE AIR FORCE IMPLEMENTED AN M-X ENVIRONMENTAL PROGRAM WHICH INCLUDED THE PREPARATIONS DEVELOPMENT (FSED), FSED ACTIVITIES INCLUDE PREPARATION AND PUBLICATION OF THE THIRD BURIED TRENCH CONSTRUCTION AND TEST PROJECT, A SECOND EIS WAS PREPARED AS AN INPUT AND FOURTH EIS'S: ONE TO SUPPORT SELECTION OF A DEPLOYMENT AREA(S) AND ANOTHER TO PURSUANT TO THE NATIONAL ENVIRONMENTAL POLICY ACT AND DOD DIRECTIVE FRED.1, OF FOUR ENVIRONMENTAL IMPACT STATEMENTS (EIS), AN EIS WAS PREPARED FOR THE M-X TO THE MILESTONE II DECISION ON WHETHER TO PROCEED WITH FULL SCALE ENGINEERING SUPPORT THE MILESTONE III DECISION FOR PRODUCTION AND DEPLOYMENT.

SUITABLE AREAS FOR BASING M-X HAD BEEN FOUND. THEY WERE CHOSEN AFTER A CAREFUL SCREENING MODES BY INVESTIGATING THE IMPACT OF DEPLOYMENT IN SEVEN BASING MODEL COMPARISON AREAS (BMCAs) of the united states. The BMCAs represented those regions in the US in which THE M-X MILESTONE II EIS COMPARED THE ENVIRONMENTAL EFFECTS OF CANDIDATE BASING OF THE ENTIRE NATION USING PRIMARILY GEOLOGICAL AND PHYSICAL CRITERIA,

FIRST, COARSE SCREENING CRITERIA WERE APPLIED TO THE ENTIRE CONTINENTAL UNITED STATES, aggregate land less than 500 square miles and areas with grades greater than 10 percent, THIS PROCESS EXCLUDED POPULATION CENTERS, MILITARY BASES, PARKS, INDIAM RESERVATIONS, AND OTHER RESTRICTED USE AREAS FROM CONSIDERATION. INTERMEDIATE AND FINE SCREENING CRITERIA WERE THEN APPLIED TO REMAINING AREAS, EXCLUDING SUCH THINGS AS PARCELS OF

EVALUATION, THE AIR FORCE CONCLUDED THAT NO ONE BASING MODE WAS ON BALANCE ENVIRONMENTALLY STUDIES LEADING TO THE MILESTONE II EIS DETERMINED WHETHER ENVIRONMENTAL CONSIDER-WHICH VARIED DEPENDING ON WHICH OF THE DIFFERENT AREAS WAS CONSIDERED, THESF WERE NOT ATIONS WOULD SHOW A PREFERENCE FOR ANY OF FOUR CANDIDATE M-X BASING MODES (VERTICAL SHELTER, HORIZONTAL SHELTER, HYBRID TRENCH, AND SLOPE-SIDED POOL), BASED UPON THIS PREFERABLE TO ANOTHER. ALTHOUGH EACH BASING MODE HAD ADVANTAGES AND DISADVANTAGES

NO ATTEMPT WAS MADE AT THAT TIME TO RANK, SELECT, OR INDICATE A PREFERENCE AMONG BASING AREAS. SIGNIFICANT ENOUGH TO FAVOR ONE BASING MODE OVER ANOTHER.

DEPLOYMENT AREA REQUIREMENTS INCREASED. ALTHOUGH, ACTUAL LAND NEEDED FOR EXCLUSIVE AREAS OF LAND BE RESERVED FOR EXCLUSIVE AIR FORCE USE, A RESTRICTION WHICH PROVED M-X USE REMAINED CONSTANT, THE TOTAL ROAD REQUIREMENTS INCREASED--WITH ASSOCIATED MODES BECAME EVIDENT, FIRST, A SECURITY APPROACH WHICH WOULD RESTRICT ACCESS TO THE AGGREGATE BASING AREA, TERMED AREA SECURITY, WOULD REQUIRE THAT EXTENSIVE HOWEVER, TWO SIGNIFICANT ENVIRONMENTAL FACTORS COMMON TO ALL FOUR BASING TO BE UNACCEPTABLE, SECOND, AS SPACING BETWEEN SHELTERS INCREASED, GENERAL ACQUISITION AND OPERATING COSTS, EASEMENT REQUIREMENTS AND OTHER ASSOCIATED IMPACTS SIMILARLY INCREASED.

HARDNESS WAS UNDERTAKEN--RESULTING IN MINIMUM SPACING REQUIREMENTS. THE CURRENT AIR FORCE TO ADOPT A POINT SECURITY SYSTEM WHERE ONLY TWO AND ONE HALF ACRES ANALYSIS OF PROJECTED SOVIET ICBM CAPABILITIES, NUCLEAR EFFECTS, AND SHELTER THE PRESIDENT DECIDED AGAINST THE AREA SECURITY SYSTEM AND DIRECTED THE M-X BASELINE REFLECTS THESE CHANGES IN THE SECURITY SYSTEM AND SPACING. AROUND EACH SHELTER ARE EXCLUDED FROM OTHER USE. IN ADDITION, EXTENSIVE REPRESENTS A BALANCE BETWEEN A VARIETY OF CONCERNS.

THE M-X/MPS SYSTEM, PERMITTING AN EVALUATION OF THE INTERACTION BETWEEN POTENTIAL SINCE THE MILESTONE II EIS, THE AIR FORCE HAS CONTINUED TO STUDY AND DEFINE BASING AREAS AND MILITARY CONSIDERATIONS, AS A FIRST STEP, THE SUITABLE AREAS PREVIOUSLY DEFINED BY ENVIRONMENTAL CHARACTERISTICS WERE REDEFINED INTO SIX AREAS TO REFLECT MILITARILY, LOGICAL DEPLOYMENT AREAS.

M-X ENVIRONMENTAL PROCESS

- FOUR ENVIRONMENTAL IMPACT STATEMENTS (EIS)
- TRENCH CONSTRUCTION AND TEST
- MILESTONE II (FULL SCALE ENGINEERING DEVELOPMENT)
- DEPLOYMENT AREA SELECTION
- MILESTONE III (PRODUCTION AND DEPLOYMENT)
- PAST RESULTS
- TOTAL US SCREENED USING COARSE, INTERMEDIATE, AND FINE CRITERIA
- DIFFERENT BASING MODES EVALUATED
- AREA SECURITY DROPPED
- SPACING BETWEEN SHELTERS MINIMIZED
- **CURRENT ACTION**
- MILITARY SCREENING CRITERIA TO SUPPLEMENT OTHER WORK
- EVALUATE SIX POTENTIAL BASING AREAS

CANDIDATE BASING AREAS

STARTING IN THE NEVADA-UTAH AREA AND FOLLOWING A "HORSESHOE" PATTERN,

THE SIX POTENTIAL BASING AREAS WERE:

NEVADA-UTAH

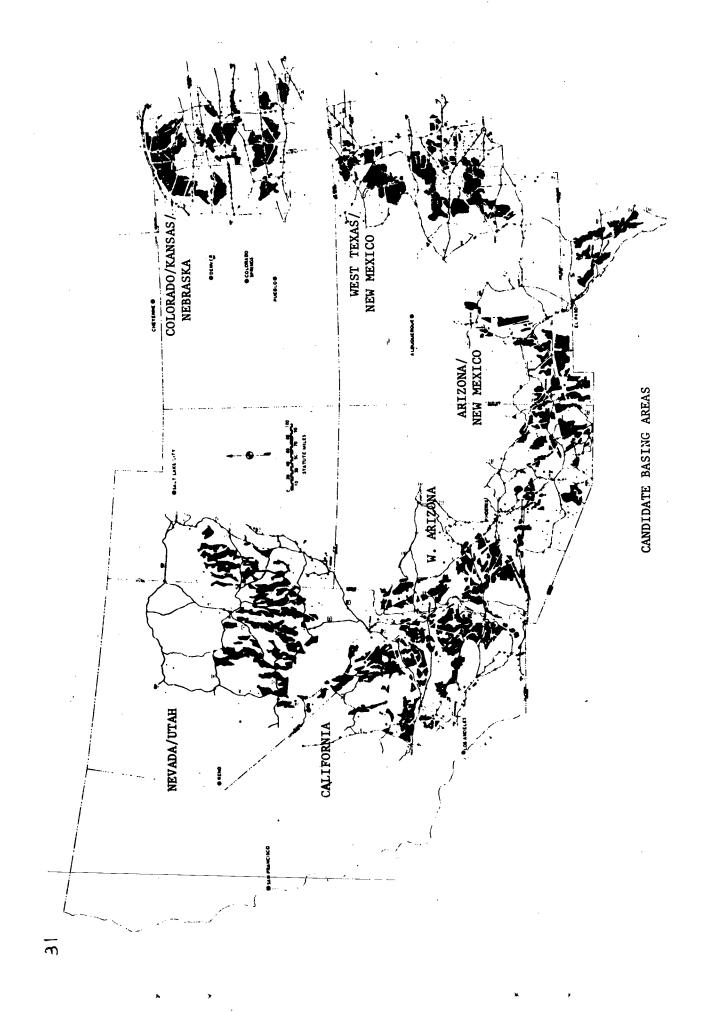
CALIFORNIA

WESTERN ARIZONA

ARIZONA-NEW MEXICO-SOUTHWEST TEXAS

WESTERN TEXAS-NEW MEXICO

COLORADO-KANSAS-NEBRASKA



5

CUBAN REVOLUTION; 10 TO 15 YEARS BEFORE THE FIRST MAN ON THE MOON AND THE VIETNAM WAR; ADVANCES AND CHANGES IN THE WORLD SITUATION, SUCH PLANNING WOULD HAVE HAD TO BE DONE SYSTEM SOON AFTER WORLD WAR II THAT WOULD BE VIABLE TODAY IN SPITE OF TECHNOLOGICAL CALCULATORS WITH THEIR TRANSISTORS AND MICROELECTRONICS; A TIME WHEN THE I'S POLICY IN THE LATE 1940s OR EARLY 1950s--JUST PRIOR TO THE FIRST HYDROGEN BOMB AND THE A TIME WHEN THE WORLD'S BEST COMPUTER COULD NOT COMPETE WITH TODAY'S HAND HELD KOREAN WAR; 5 TO 10 YEARS BEFORE THE FIRST ICBM, THE FIRST SATELLITE, AND THE IN A SENSE, PLANNING FOR M-X IS EQUIVALENT TO HAVING PLANNED A STRATEGIC OF CONTAINMENT WAS BACKED BY UNQUESTIONED NUCLEAR SUPERIORITY,

CHANGE WITH MINIMUM IMPACT ON NATIONAL SECURITY, HENCE, CRITERIA WERE DEVELOPED M-X PLANNING REQUIRES GREAT CAUTION AND CAREFUL HEDGING TO ACCOMMODATE FUTURE AND USED TO EVALUATE SIX POTENTIAL BASING AREAS, WITH THE INTENT OF PROVIDING OF M-X. WHILE US RESPONSES TO NEAR TERM SOVIET CHALLENGES CANNOT BE DELAYED, AS YET UNIMAGINED CHANGES WILL INEVITABLY TAKE PLACE DURING THE LIFETIME MINIMUM SAFETY FACTORS RELATIVE TO BOTH EXPECTED AND UNFORESEEN PROBLEMS, CRITERIA

BENEFITS OF DISTANCE

IN DEVELOPING MILITARY SCREENING CRITERIA FOR M-X BASING AREAS, THE BE PASED BECAME EVIDENT, WHILE DISTANCE REQUIREMENTS CANNOT BE EXACTLY SPECIFIED SINCE FUTURE THREAT DEVELOPMENTS CANNOT BE DEFINED PRECISELY, SEPARATION OF M-X FROM AREAS WHERE EITHER PHYSICAL AND ELECTROMAGNETIC ADVANTAGES OF SEPARATING M-X FROM AREAS WHERE POTENTIAL THREATS COULD THREATS MIGHT BE DEPLOYED -- OVERTLY OR COVERTLY -- IS ADVISABLE FOR THE REASONS LISTED,

THREAT DEVELOPMENTS, BUT ADDED DISTANCE WILL RAISE THE COST TO ATTACK AND FACILITATE COUNTERMEASURES, THEREBY REDUCING THE SOVIETS' EXPECTED NO SEPARATION DISTANCE COULD TOTALLY NEGATE CONCERNS OVER FUTURE PAYOFF AND DETERRING DEVELOPMENT OF SUCH THREATS,

BENEFITS OF DISTANCE

- PHYSICAL THREATS (E.G. CRUISE MISSILES, RADAR HOMING MISSILES, SABOTAGE)
- MORE TIME TO REACH TARGET
- INCREASED WARNING PROBABILITY AND TIME
- MORE TIME FOR DEFENSIVE REACTION OR M-X LAUNCH
- MORE ATTACK RESOURCES REQUIRED
- ELECTROMAGNETIC THREATS (E.G. JAMMERS, DATA COLLECTION, WEAPONS CONTROL)
- INCREASED POWER REQUIRED
- LINE OF SIGHT LIMITS (200-300 MILES FROM 40,000 60,000 FEET
- **COUNTERMEASURES FACILITATED**

RAISES COST TO ATTACK AND REDUCES EXPECTED PAYOFF. DETERS THREAT DEVELOPMENT

SUBMARINE LAUNCHED BALLISTIC MISSILES (SLBMS)

SLBMS WHEN THEY ARE ON A TRANSPORTER OUTSIDE A SHELTER DURING OPERATIONS IN A DURING NORMAL DAY-TO-DAY OPERATIONS WHERE THE M-X MISSILES ARE CONCEALED, YIELDS AND POOR ACCURACY, HOWEVER, M-X MISSILES COULD BE VULNERABLE TO SLBMS WILL NOT POSE A SIGNIFICANT THREAT BECAUSE OF THFIR LOW BACKUP MOBILITY MODE,

FLIGHT TIME. UNDER NORMAL CONDITIONS (CURRENT SOVIET PATROL AREAS AND MINIMUM PROVISIONS WILL, THEREFORE, BE INCLUDED IN THE SYSTEM SO THE MISSILE WILL REDUCE THEIR SLBM FLIGHT TIMES BY USING DEPRESSED TRAJECTORIES, MOVING CLOSER REGARDLESS OF WHICH M-X BASING AREA IS SELECTED. HOWEVER, THE SOVIETS CAN ENERGY TRAJECTORIES), SUFFICIENT TIME WILL BE AVAILABLE FOR THIS OPERATION BE ABLE TO BE INSERTED IN A SHELTER, AND THE SHELTER CLOSED, WITHIN SLBM TO THE US COAST, OR A COMBINATION OF BOTH, THE EFFECTS OF SUCH CHANGES ARE ILLUSTRATED ON THE NEXT CHART,

CLOSE-IN PATROL AREA MINIMUM ENERGY SUBMARINE LAUNCHED **BALLISTIC MISSILES** UNCLASSIFIED UNCLASSIFIED NORMAL PATROL AREA

M-X MOBILITY OPTIONS VS SLBM THREATS

SLBMS DEPLOYED. THE RELATIVE TIMES INDICATED ON THE RIGHT ARE REPRESENTATIVE CLASSIFIED. TRAJECTORIES ARE INDICATED'BY BANDS DUE TO THE VARIETY OF SOVIET THE CHART DOES NOT SHOW ACTUAL TIMES AND DISTANCES BECAUSE THEY ARE OF THE CURRENT M-X DESIGN,

- M-X MISSILE, AND CLOSING THE SHELTER, ASSUMING THE MISSILE WAS WAITING AT THE - "M-X AT SHELTER FENCE" REPRESENTS THE TIME FOR WARNING, INSERTING AN SHELTER FENCE, WITH INCREASING TIME, THE MISSILE COULD BE IN MOTION AT GREATER DISTANCES FROM THE SHELTER AND STILL BE ABLE TO GAIN SAFETY,
- THE MISSILE IS AT THE WORST POINT BETWEEN TWO SHELTERS, THE SPREAD INDICATED BY THE BRACKET IS DUE TO UNEQUAL DISTANCES BETWEEN DIFFERENT SETS OF ADJACENT - "M-X BETWEEN TWO SHELTERS" REPRESENTS THE TIME UNTIL CLOSURE WHEN
- "M-X AT CLUSTER MAINTENANCE FACILITY" OR CMF REPRESENTS TIME TO CLOSURE WHERE THE TRANSPORTER IS AT THE CMF (WHERE THE CREW COULD REST),

M-X MOBILITY OPTIONS (CONT'D)

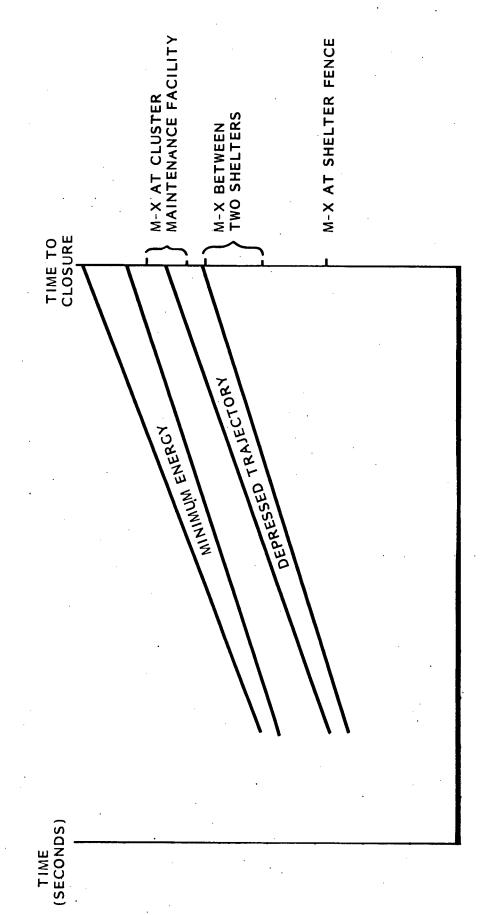
ADDITONAL TIME PROVIDES THREE DENEFITS:

- DURING DEVELOPMENT AND ALLOWS LOWER COST SOLUTIONS TO PROVIDING MOBILITY, - IT PROVIDES INSURANCE AGAINST ANY MOBILITY PROBLEMS THAT ARISE
- IT INCREASES OPERATIONAL MOBILITY OPTIONS,
- IT MAY ALLOW THE TRANSPORTER TO REACH A GREATER NUMBER OF SHELTERS IN SLBM FLIGHT TIME, THEREBY ENHANCING LOCATION UNCERTAINTY,

CLOSE TO US WATERS AND USING DEPRESSED TRAJECTORIES--NECESSITATING A DESIGN COULD SERIOUSLY THREATEN THE SYSTEM IN ITS BACKUP MOBILITY MODE BY MOVING IF M-X WERE DEPLOYED LESS THAN 200 MILES FROM THE COAST THE SOVIETS CHANGE, IF POSSIBLE, AND HIGHER COSTS.

BY DEPLOYING A MINIMUM OF 200 MILES INLAND, OPERATIONAL OPTIONS WILL BE AVAILABLE TO PERMIT A VIABLE BACKUP MOBILITY MODE FOR M-X,

M-X MOBILITY OPTIONS VS SLBM THREATS



SLBM DISTANCE FROM M-X (MILES)

BOOST PHASE INTERCEPT

A POTENTIAL ENEMY BOOST PHASE INTERCEPTOR IS WORRISOME BECAUSE IT COULD THREATEN M-X IN ITS PRIMARY CONCEALMENT MODE AS WELL AS IN ITS BACKUP SURVIVABILITY MODES. IN ADDITION, IT WOULD BE CONCENTRATED AGAINST ['S RESOURCES THAT SURVIVED A SOVIET FIRST STRIKE, SO A RELATIVELY FEW SOVIET BOOST PHASE INTERCEPTORS COULD HAVE A LARGE PAYOFF TO THE SOVIETS,

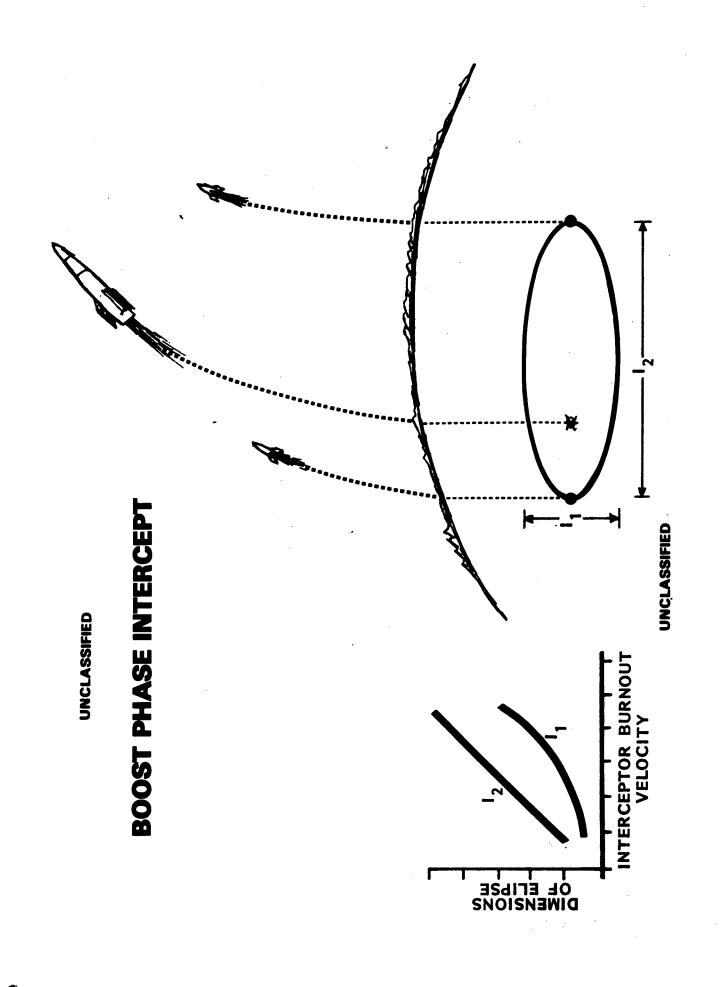
THE CHART DEPICTS AN ICBM LAUNCH AND AN ELLIPSE ON THE GROUND FROM WHICH IT COULD BE THREATENED BY A BOOST PHASE INTERCEPTOR,

- THE EASIEST PLACE FROM WHICH TO PERFORM AN INTERCEPT WOULD BE IN LINE WITH THE ICBM'S TRAJECTORY, THE WORST PLACE WOULD BE BEHIND THE MISSILE, SO THE INTERCEPTOR WOULD HAVE TO CHASE IT,
- THE KEY PARAMETERS WHICH DETERMINE THE SIZE OF THE ELLIPSE ARE ICBM PERFORMANCE, INTERCEPTOR BURNOUT VELOCITY, INTERCEPTOR REACTION TIME AFTER ICBM LAUNCH, AND THE RELATIVE POSITIONS OF THE ICBM AND THE INTERCEPTOR, (NUMBERS ARE THE ELLIPSE IS DEFINED BY ITS TWO AXIS AS INDICATED ON THE CHART, LEFT OFF CHART DUE TO CLASSIFICATION.)

BOOST PHASE INTERCEPT (CONT'D)

WHILE EXACT PROJECTIONS OF BOOST PHASE INTERCEPTORS ARE NECESSARILY WOULD BE POSSIBLE WITHOUT MAJOR, UNFORESEEN TECHNOLOGICAL IMPROVEMENTS. HYPOTHETICAL, IT DOES NOT APPEAR THAT A CHASE FROM MORE THAN 200 MILES IN THE CASE OF M-X, WHICH WILL GENERALLY BE LAUNCHED NORTHWARD, BOOST PHASE INTERCEPTORS MORE THAN 200 MILES SOUTH OF THE DEPLOYMENT AREA SHOULD NOT POSE A SIGNIFICANT THREAT,

INTERNATIONAL WATERS, SHOULD PROVIDE REASONABLE PROTECTION FROM SEA-BASED INTERCEPTORS DEPLOYED AT SEA TO THE NORTHWEST OF THE M-X DEPLOYMENT LEAST 200-300 MILES INLAND, COMBINED WITH PROTECTION AFFORDED BY US AREA COULD HAVE A GREATER EFFECTIVE RANGE. HOWEVER, DEPLOYMENT AT INTERCEPTORS,



SCREENING CRITERIA

THREE COMPOSITE CRITERIA WERE DEVELOPED: DISTANCE FROM THE COAST; DISTANCE FROM INTERNATIONAL BORDERS; AND COMPATIBILITY WITH LOCAL AREA AND ACTIVITIES, DISTANCE FROM THE COAST. AS INDICATED EARLIER, THE GFNERAL RATIONALE FOR MOVING INLAND THREATS CONSIDERED IN THE DEVELOPMENT OF THIS CRITERION INCLUDED JAMMING, SEA LAUNCHED IS THAT DISTANCE GENERALLY REDUCES THE EFFECTIVENESS OF THREATENING SEA-BASED FORCES, FOR PHYSICAL THREATS SUCH AS AIRCRAFT OR MISSILES, ADDED DISTANCE DIRECTLY INCREASES INCREASE IN RELATION TO DISTANCE AND ARE OFTEN LIMITED TO "LINE-OF-SIGHT" DISTANCES, MORE TIME FOR DEFENSIVE REACTIONS, FOR ELECTROMAGNETIC THREATS, POWER REQUIREMENTS BALLISTIC MISSILES (SLBMs), CRUISE MISSILES, RADAR HOMING MISSILES, MISSILES WITH THE TIME NEEDED TO REACH THE TARGET, INCREASES PROBABLE WARNING TIME, AND ALLOWS ADVANCED SENSORS, TO ATTACK MISSILE TRANSPORTERS, AND INTERCEPTORS TO ATTACK M-X DURING ITS BOOST PHASE ASCENT,

FIRM BREAKPOINTS WERE NOT EVIDENT, BUT GENERAL RANGES OF ACCEPTABILITY VIDED BY US TERRITORIAL WATERS AND THE ABILITY TO DEPLOY US FORCES IN AND OVER INTER-POTENTIAL THREATS WERE CONSIDERED IN CONJUNCTION WITH THE POTENTIAL PROTECTION PRO-IN MAKING A JUDGMENT ON REASONABLE DISTANCE REQUIREMENTS, THESE REPRESENTATIVE NATIONAL WATERS, COULD BE DEFINED

OF SIGNIFICANT RISKS AND GREATLY FACILITATE RESPONSES TO UNFORESEEN THREATS, AS DISTANCE IS DECREASED BELOW 500 MILES, RISKS AND RESPONSE DIFFICULTIES INCREASE ACCORDINGLY, WITH BASING M-X 500 OR MORE MILES FROM THE COAST WOULD PRECLUDE UNNECESSARY INTRODUCTION BE WORTHY OF FURTHER CONSIDERATION ONLY IF DEPLOYMENT FURTHER INLAND PROVED IMPOSSIBLE, DEPLOYMENT LESS THAN 200 MILES FROM THE COAST WILL ENTAIL UNREASONABLE RISKS AND WOULD CONCERNS BECOMING INCREASINGLY SERIOUS BETWEEN 300 AND 200 MILES FROM THE COAST

ACTIVITIES WHICH REPRESENT A DANGER TO US NATIONAL SECURITY INTERESTS, WITHOUT A COMMIT-DISTANCE FROM INTERNATIONAL BORDERS. THE LOGIC FOR DEPLOYING M-X AWAY FROM BORDERS IN ANY INVESTIGATION OF SUSPICIOUS ACTIVITIES AND TO INHIBIT MEANINGFUL INTELLIGENCE SURROUNDING THE M-X DEPLOYMENT AREA IS DESIRED TO AVOID INTERNATIONAL COMPLICATIONS IS SIMILAR TO THE LOGIC FOR THE "DISTANCE FROM THE COAST" CRITERION--ADDED DISTANCE REDUCES VULNERABILITIES TO UNFORESEEN THREATS. ADDITIONALLY, FREE ACCESS TO THE COLLECTION, NATIONAL JURISDICTION OVER SUCH LAND WILL PROVIDE TIMELY CONTROL OF MENT OF COOPERATIVE BEHAVIOR FROM FOREIGN GOVERNMENTS.

ENHANCES "CONUS PROTECTION" OF M-X--ENEMY ATTACKS WILL REQUIRE GREATER RESOURCES AND HAVE a lower chance of success, US detection probability and warning time will be increased, US BORDERS AND FLIGHT OVER US TERRITORY, THEREFORE, INCREASING DISTANCE FROM BORDERS ACTIVITIES AND PRECLUDES AN ENEMY ATTACK ON THE M-X SYSTEM WITHOUT PENETRATION OF DISTANCE FROM NON-US TERRITORY REDUCES THE POSSIBILITY OF A HAVEN FOR COVERT AND US RESPONSES WILL BE FACILITATED,

THREATS CONSIDERED INCLUDED ADVANCED SENSORS, PRECISION GUIDED MUNITIONS, BOOST JUDGMENT ON REASONABLE DISTANCE REQUIREMENTS AND TO DEFINE RANGES OF ACCEPTABILITY NOT INCLUSIVE OF ALL POTENTIAL DEVELOPMENTS, SUCH THREATS WERE USED TO SUPPORT A PHASE INTERCEPTORS, JAMMERS, CRUISE MISSILES, AND RADAR HOMING MISSILES, WHILE RELATIVE TO DISTANCE FROM INTERNATIONAL BORDERS,

CRITERION--500 MILE SEPARATION FROM BORDERS IS DESIRABLE, PROBLEMS ASSOCIATED WITH BASING AREAS BETWEEN 500 AND 200 MILES FROM BORDERS CAN BE HANDLED WITH REASONABLE MEASURES, BUT BASING WITH LESS THAN 200 MILE SEPARATION WOULD ENTAIL UNREASONABLE THIS CRITERION WAS DEFINED IN THE SAME TERMS AS THE "DISTANCE FROM THE COAST"

LOCAL AREA AND ACTIVITIES" CRITERION, IT IS DIFFICULT TO DEFINE IT IN A STRAIGHTFORWARD DEPLOYMENT AREAS FOR M-X--PROBLEMS WOULD INCREASE, BUT COULD BE SOLVED WITH REASONABLE SIGNIFICANT OPERATIONAL PROBLEMS, AREAS WITH MODEST RURAL POPULATIONS, LOW TO MEDIUM HOWEVER, COMPATIBILITY TENDS TO DEPEND ON THREE HIGHLY CORRELATED CHARACTER-DUE TO THE WIDE VARIETY OF CONSIDERATIONS ENCOMPASSED BY THE "COMPATIBILITY WITH ACTIVITY LEVELS, AND PRIMARILY UNDEVELOPED OR RANGE LAND ARE CONSIDERED REASONABLE AREAS WITH HIGH RURAL POPULATIONS, HIGH ACTIVITY LEVELS, OR WHICH ARE UNDEVELOPED LAND SHOULD BE HIGHLY COMPATIBLE WITH THE M-X SYSTEM AND INVOLVE NO RURAL AREAS WITH LOW POPULATIONS, LOW ACTIVITY LEVELS, AND PRIMARILY PREDOMINANTLY AGRICULTURAL ARE CONSIDERED UNREASONABLE BASING AREAS MANNER. ISTICS,

SCREENING CRITERIA

DISTANCE FROM THE COAST: 500 MILES WOULD PRECLUDE INTRODUCTION OF SIGNIFICANT RISKS. LESS THAN 200 MILES WOULD ENTAIL UNREASONABLE RISKS.

WOULD PRECLUDE INTRODUCTION OF SIGNIFICANT RISKS. DISTANCE FROM INTERNATIONAL BORDERS: 500 MILES LESS THAN 200 MILES WOULD ENTAIL UNREASONABLE RISKS

WHICH ARE PREDOMINANTLY AGRICULTURAL ARE CONSIDERED WITH HIGH RURAL POPULATIONS, HIGH ACTIVITY LEVELS, OR COMPATIBILITY WITH LOCAL AREA AND ACTIVITIES: AREAS UNREASONABLE BASING AREAS. COMPATIBILITY WITH LOCAL AREA AND ACTIVILIES. ACTIVITIES ARE UNDER WAY TO ANALYZE HOW THE LOCAL AREA AND ACTIVITIES WILL AFFECT MILITARY EFFECTIVENESS AND OPERATIONAL THE ENVIRONMENTAL AND SOCIO-ECONOMIC IMPACT OF PROPOSED ACTIONS AND DEVELOP WAYS TO MINIMIZE ADVERSE IMPACTS, THE REVERSE PROCESS IS ALSO REQUIRED--NAMELY, TO ASSESS

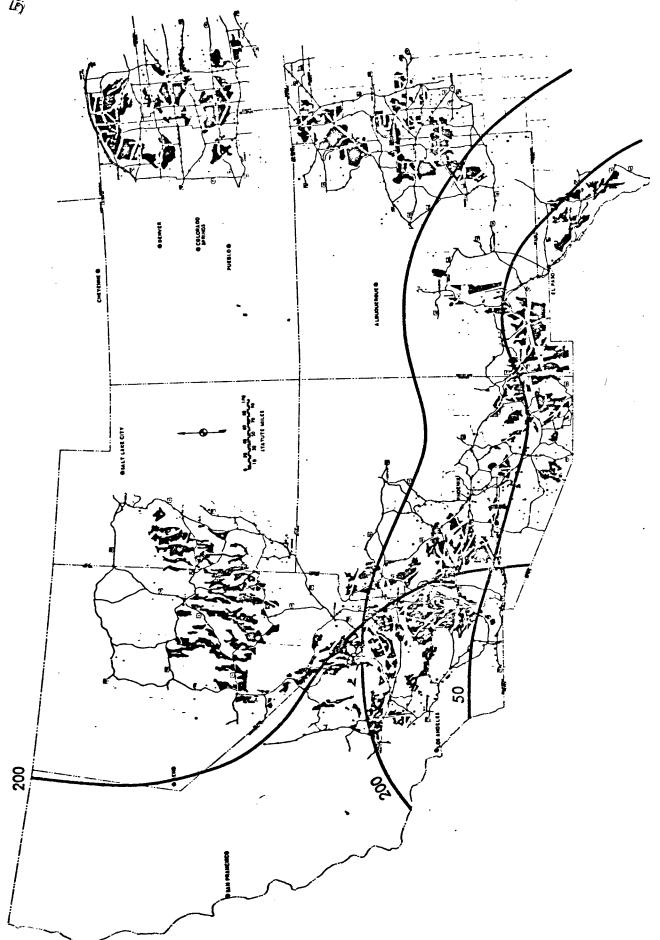
UNNECESSARY USE OF PRODUCTIVE LAND, THIS CONSIDERATION IS CONSISTENT WITH DOD POLICY FROM THE ONSET OF THE M-X PROGRAM, "LAND USE" HAS BEEN A PRIMARY CONSIDERATION, INCLUDED IN THIS CONSIDERATION ARE DESIRES TO: MINIMIZE ACQUISITION OF LAND FOR EXCLUSIVE M-X USE, MAXIMIZE USE OF PUBLIC LAND RATHER THAN PRIVATE, AND AVOID AND THE AIR FORCE'S INTERPRETATION OF CONGRESSIONAL INTENT,

PUBLIC LAW 96-29 DATED JUNE 27, 1979, DEPARTMENT OF DEFENSE SUPPLEMENTAL APPROPRIATION PRODUCTIVE LAND FOR M-X DEPLOYMENT, THEREFORE, BASING AREAS ARE PREFERRED WHICH AVOID AUTHORIZATION ACT 1979, SECTION 202 B STATED ". . . IT IS THE SENSE OF THE CONGRESS LEAST PRODUCTIVE LAND AVAILABLE THAT IS SUITABLE FOR SUCH PURPOSE," THE DISCUSSION IN CONGRESS INDICATES THAT THE INTENT WAS TO MINIMIZE ACQUISITION OF AGRICULTURALLY THAT THE BASING MODE FOR THE MX MISSILE SHOULD BE RESTRICTED TO LOCATION ON THE AGRICULTURAL ACTIVITIES,

THIS POLICY IS ALSO CONSISTENT WITH MINIMIZING OPERATIONAL COSTS AND ENHANCING OPERATIONAL COSTS ARE REDUCED SINCE AREAS WITH FEW COMPETING ACTIVITIES PERMIT MORE EFFICIENT DEPLOYMENT OF THE SYSTEM, VERIFICATION AND PLU ACTIVITIES ARE ENHANCED BECAUSE CONFUSING OR AMBIGUOUS INFORMATION IS MINIMIZED AND SECURITY PROCEDURES VERIFICATION AND ACTIVITIES TO PRESERVE MISSILE LOCATION UNCERTAINTY. FACILITATED IN REMOTE AREAS,

RANGE FROM BORDERS AND COAST

THIS CHART SHOWS THE RELATIONSHIP OF EACH BASING AREA TO 200 MILE LINES FROM THE COAST AND THE SOUTHERN US BORDER.



Range from Borders and Coast.

APPLICATION OF CRITERIA

THE CALIFORNIA AREA WAS NOT SELECTED FOR IN-DEPTH ENVIRONMENTAL ANALYSIS BECAUSE ARIZONA-NEW MEXICO-SW TEXAS AREAS WERE NOT SELECTED FOR FURTHER STUDY DUE TO THEIR IT DID NOT PROVIDE SUFFICIENT DISTANCE FROM THE COAST. THE WESTERN ARIZONA AND PROXIMITY TO AN INTERNATIONAL BORDER.

ARIZONA, NEW MEXICO, AND TEXAS, TO THE COLORADO-KANSAS-NEBRASKA AREA, THREE TRENDS ALMOST COMPLETELY PRIVATE, PREDOMINANTLY AGRICULTURAL, AND WITH A POPULATION THAT THE PERCENTAGE OF SUITABLE LAND IN AN AREA THAT HAS VERY LOW POPULATION TENDS TO WERE EVIDENT, THE PERCENTAGE OF LAND THAT IS PRIVATELY OWNED TEMDS TO INCREASE, DECREASE, AND AGRICULTURAL ACTIVITY TENDS TO INCREASE -- UNTIL THE FINAL AREA IS IN FOLLOWING THE "HORSESHOE" PATTERN FROM NEVADA-UTAH, THROUGH CALIFORNIA, IS SPREAD RELATIVELY EVENLY OVER THE BASING AREA.

THE IMPACT OF THE LOCAL AREA AND ACTIVITIES ON THE M-X SYSTEM, AGRICULTURAL ACTIVITIES, WILL INCREASE AS ONE MOVES AROUND THE "HORSESHOE," IN THE SIX BASING AREAS CONSIDERED, WHICH DISTURB THE LAND AND OFTEN ENTAIL USE OF LARGE EQUIPMENT AND FACILITIES, MAKE ALL THREE TRENDS ARE INDICATIVE OF INCREASING MILITARY AND OPERATIONAL PROBLEMS ASSOCIATED WITH M-X DEPLOYMENT. THE PROBLEMS CAN BE OVERCOME, BUT THE DIFFICULTIES THE AMOUNT OF AGRICULTURAL LAND TENDED TO BE THE GREATEST DISCRIMINANT IN ASSESSING VERIFICATION AND PRESERVATION OF LOCATION UNCERTAINTY MORE DIFFICULT,

THE POPULATION AND ACTIVITY LEVELS IN ALL SIX ARFAS TENDED TO BE COMPATIBLE WITH M-X DEPLOYMENT WITH TWO EXCEPTIONS, BOTH OF WHICH ARE RELATED TO AGRICULTURE,

ISOLATED LAND. AS A RESULT, THE POPULATION DISTRIBUTION AFFECTS M-X AS WELL AS THE FIRST, M-X CAN BE DEPLOYED MOST EFFICIENTLY WHERE THERE ARE LARGE AMOUNTS OF AVERAGE POPULATION DENSITY. IN THE COLORADO-KANSAS-NEBRASKA AREA THE POPULATION IS RELATIVELY MORE DISPERSED THAN THE OTHER AREAS, AND M-X WOULD TEND TO SPREAD WOULD RESULT IN MORE ROADS TO MAINTAIN, MORE REMOTE SURVEILLANCE SITES, GREATER OUT IN THAT AREA IN ORDER TO REDUCE THE IMPACT ON THE LOCAL POPULATION, SECURITY FORCES, AND HIGHER COSTS.

HARVESTING CROPS HAD TO BE CONSIDFRED ALSO. (IN THE PLAINS AREA, MUCH OF THE PLANT-THE SEASONS CHANGE,) PROVIDING SECURITY DURING SUCH PEAK PERIODS OF ACTIVITY--MUCH M-X, PERIODS OF RELATIVELY INTENSE ACTIVITY ASSOCIATED WITH PLANTING, TENDING, AND ING AND HARVESTING IS DONE BY HIRED CRFWS, WITH LARGE MACHINERY, WHO MOVE NORTH AS SECOND, WHILE ACTIVITY LEVELS, ON THE AVERAGE, TENDED TO BE COMPATIBLE WITH OF WHICH COULD NOT BE READILY CLASSIFIED AS BENIGN--WOULD FURTHER INCREASE M-X

IN ADDITION, BASING IN THE COLORADO-KANSAS-NEBRASKA AREA WOULD BE CONTRARY TO THE SENSE OF CONGRESS THAT M-X SHOULD BE RESTRICTED TO THE LEAST PRODUCTIVE LAND AVAILABLE AND WOULD ENTAIL OPERATIONAL PROBLEMS DUE TO NEARBY HIGH-VALUE TARGETS (AIRBORNE LAUNCH CONTROL CENTER OR ALCC OPERATING AREAS WOULD BE LIMITED AND THE SOVIETS MAY BE ABLE TO TAKE ADVANTAGE OF COLLATERAL DAMAGE EFFECTS),

WHILE INDIVIDUALLY THE PROBLEMS IN THE COLORADO-KANSAS-NEBRASKA AREA (VERIFICATION, WERE SUFFICIENTLY SERIOUS THAT THE AREA WAS JUDGED TO BE AN UNREASONABLE BASING AREA NEARBY HIGH-VALUE TARGETS) WOULD NOT PRECLUDE M-X DEPLOYMENT, THE PROBLEMS IN TOTO PRESERVATION OF LOCATION UNCERTAINTY, SECURITY, COSTS, CONGRESSIONAL CONCERN, AND FOR M-X, AND IT WAS NOT SELECTED FOR FURTHER STUDY,

THE TWO REMAINING AREAS, NEVADA-UTAH AND WEST TEXAS-NEW MEXICO, WERE BOTH CONSIDERED REASONABLE ALTERNATIVES,

APPLICATION OF CRITERIA

COMPATIBILITY WITH LOCAL AREA AND ACTIVITIES	MOSTLY PUBLIC VERY LOW RURAL ACTIVITY AND POPULATION AGRICULTURE CAN BE AVOIDED	MOSTLY PUBLIC LOW RURAL ACTIVITY AND POPULATION ACCESS FROM LOS ANGELES AGRICULTURE CAN BE AVOIDED	MOSTLY PUBLIC LOW RURAL ACTIVITY AND POPULATION ACCESS FROM YUMA, PHOENIX, AND TUCSON AGRICULTURE CAN BE AVOIDED	50% PRIVATE LOW RURAL POPULATION AND ACTIVITY AGRICULTURAL CAN BE AVOIDED	ALMOST ALL PRIVATE LOW RURAL POPULATION AND ACTIVITY IN NORTHERN PART SOME DEPLOYMENT ON AGRICULTURAL LAND MAY BE NECESSARY	ALMOST ALL PRIVATE RELATIVELY HIGH ACTIVITY MOSTLY AGRICULTURAL ALCC CONSTRAINTS POTENTIAL COLLATERAL DAMAGE
DISTANCE FROM BORDERS (MILES)	300-500	50-300	LESS THAN 200	LESS THAN 200	200-400	OVER 500
DISTANCE FROM THE COAST (MILES)	300-500	LESS THAN 200	200-300	009-004	OVER 500	OVER 500
AREA	NEVADA-UTAH	CALIFORNIA	W ARIZONA	ARIZONA, NEW MEXICO, SW TEXAS	W TEXAS, NEW MEXICO	COLORADO, KANSAS, NEBRASKA

SUMMARY EVALUATION OF CANDIDATE BASING AREAS

WERE NEVADA-UTAH AND WEST-TEXAS-NEW MEXICO. THOSE TWO AREAS WERE THIS CHART SUMMARIZES THE PREVIOUS CHART, THE ONLY POTENTIAL BASING AREAS THAT DID NOT ENTAIL UNREASONABLE RISKS OR CONDITIONS SELECTED FOR FURTHER STUDY,

SUMMARY EVALUATION OF CANDIDATE BASING AREAS

YES	OZ	ON	O Z	YES	Oz
нон	REASONABLE	REASONABLE	REASONABLE	REASONABLE	UNREASONABLE
NOT SIGNIFICANT	UNREASONABLE IN SOUTHERN HALF	UNREASONABLE	UNREASONABLE	REASONABLE	NOT SIGNIFICANT
REASONABLE	UNREASONABLE	REASONABLE	REASONABLE	NOT	NOT
NEVADA UTAH	CALIFORNIA	W. ARIZONA	ARIZONA, NEW MEXICO, SW TEXAS	WEST TEXAS, NEW MEXICO	COLORADO, Kansas, Nebraska
	REASONABLE NOT SIGNIFICANT HIGH	REASONABLE NOT SIGNIFICANT HIGH RNIA UNREASONABLE IN REASONABLE SOUTHERN HALF	REASONABLE NOT SIGNIFICANT HIGH UNREASONABLE SOUTHERN HALF REASONABLE UNREASONABLE	REASONABLE NOT SIGNIFICANT HIGH UNREASONABLE IN REASONABLE SOUTHERN HALF REASONABLE UNREASONABLE REASONABLE UNREASONABLE REASONABLE REASONABLE	REASONABLE NOT SIGNIFICANT HIGH UNREASONABLE IN REASONABLE SOUTHERN HALF REASONABLE UNREASONABLE REASONABLE UNREASONABLE REASONABLE REASONABLE REASONABLE REASONABLE REASONABLE REASONABLE REASONABLE REASONABLE REASONABLE